

## Rabbit Anti-P2RX7 antibody

SL12106R

<b>Product Name</b>	P2RX7
<b>Chinese Name</b>	嘌呤受体 P2X7 抗体
<b>Alias</b>	ATP receptor; P2X purinoceptor 7; P2X7; P2Z receptor; Purinergic receptor; purinergic receptor P2X, ligand gated ion channel 7; P2RX7_HUMAN.
<b>Research Area</b>	Neurobiology Channel protein The cell membrane 受体
<b>Immunogen Species</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>React Species</b>	Human, Mouse, (predicted: Rat, Dog, Pig, Horse, Rabbit, ) WB=1:500-2000 (Paraffin sections need antigen repair)
<b>Applications</b>	not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
<b>Theoretical molecular weight</b>	69kDa
<b>Cellular localization</b>	The cell membrane
<b>Form</b>	Liquid
<b>Concentration</b>	1mg/ml
<b>immunogen</b>	KLH conjugated synthetic peptide derived from human P2RX7: 115-160/595 <Extracellular>
<b>Lsotype</b>	IgG
<b>Purification</b>	affinity purified by Protein A
<b>Buffer Solution</b>	1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol.
<b>Storage</b>	Shipped at 4°C. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
<b>Attention</b>	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
<b>PubMed</b>	<a href="#">PubMed</a>
<b>Product Detail</b>	The P2X receptor family is comprised of ligand-gated ion channels that allow for the increased permeability of calcium into the cell in response to extracellular ATP. The seven P2X receptors, P2X1-P2X7, form either

homomeric or heteromeric channels or both. They are characterized by intracellular amino- and carboxy-termini. P2X receptors are expressed in a wide variety of tissues, including neurons, prostate, bladder, pancreas, colon, testis and ovary. The major function of the P2X receptors is to mediate synaptic transmissions between neurons and to other tissues via the binding of extracellular ATP, which acts as a neurotransmitter. The P2X receptors may be involved in the onset of necrosis or apoptosis after prolonged exposure to high concentrations of extracellular ATP.

**Function:**

The product P2RX7 belongs to the family of purinoceptors for ATP. This receptor functions as a ligand-gated ion channel and is responsible for ATP-dependent lysis of macrophages through the formation of membrane pores permeable to large molecules. Activation of this nuclear receptor by ATP in the cytoplasm may be a mechanism by which cellular activity can be coupled to changes in gene expression.

**Subunit:**

Functional P2XRs are organized as homomeric and heteromeric trimers. Interacts with LAMA3, ITGB2, ACTB, ACTN4, SVIL, MPP3, HSPA1, HSPCB, HSPA8, PIK230 and PTPRB.

**Subcellular Location:**

Cell membrane; Multi-pass membrane protein.

**Post-translational modifications:**

Phosphorylation results in its inactivation.

ADP-ribosylation at Arg-125 is necessary and sufficient to activate P2RX7 and gate the channel (By similarity).

Palmitoylation of several cysteines in the C-terminal cytoplasmic tail is required for efficient localization to cell surface.

**Similarity:**

Belongs to the P2X receptor family.

**SWISS:**

Q99572

**Gene ID:**

5027

**Database links:**

[Entrez Gene: 5027](#) Human

[Entrez Gene: 18439](#) Mouse

[Entrez Gene: 29665](#) Rat

[Omim: 602566](#) Human

[SwissProt: Q99572](#) Human

[SwissProt: Q9Z1M0](#) Mouse

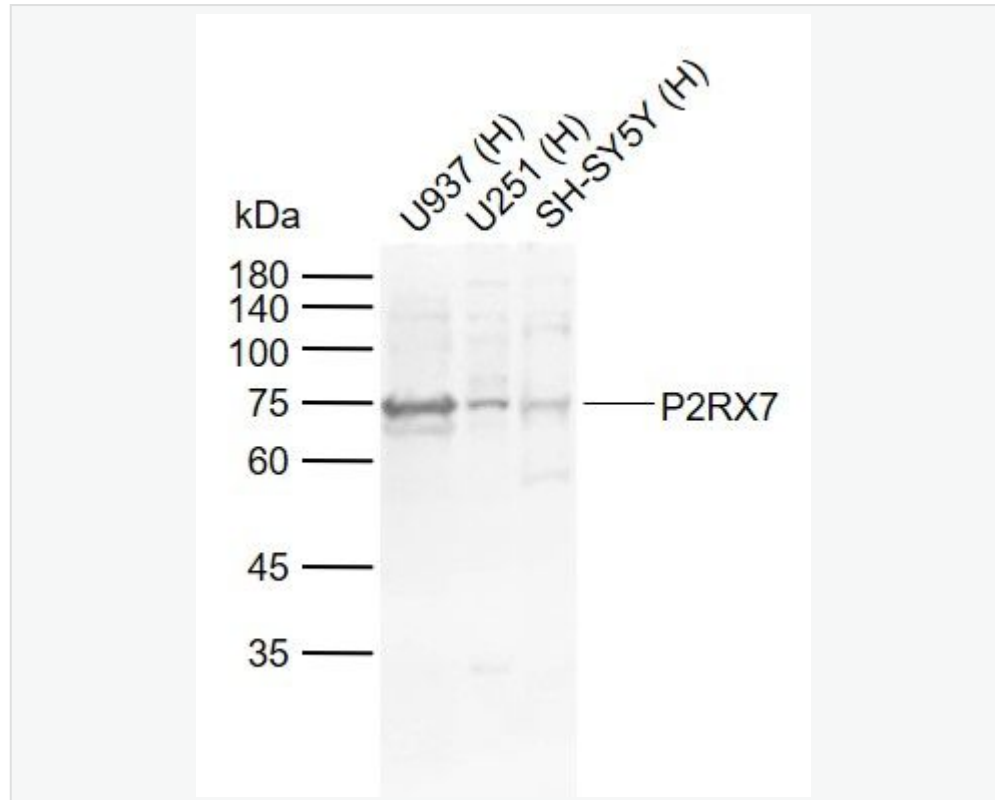
[SwissProt: Q64663](#) Rat

[Unigene: 729169](#) Human

[Unigene: 42026](#) Mouse

[Unigene: 10510](#) Rat

**Product Picture**



Sample:

Lane 1: Human U937 cell lysates

Lane 2: Human U251 cell lysates

Lane 3: Human SH-SY5Y cell lysates

Primary: Anti-P2RX7 (SL12106R) at 1/1000 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 69 kDa

Observed band size: 74 kDa